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The study of quantum fluctuation effects of a soliton embedded in a thermal vacuum

Summary

The quantum corrections to the soliton energy have been calculated at finite temperatures. The physical meaning of the phase shift of the sea quark wave function in a thermal vacuum has also been discussed. Meanwhile it is found that the thermodynamic potential would be modified by the distorted wave functions of sea quarks in the thermal vacuum, as well as the phase transition order modified accordingly. The underlying physics has been discussed

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